

MODEL L—H009 MULTI—PURPOSE MACHINE

OPERATION INSTRUCTION
TEST CERTIFICATION
PACKING LIST

SERIES:

LINYI MACHINE TOOL WORKS
THE PEOPLE'S REPUBLIC OF CHINA

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1. Purpose and Application Scope

This machine is a multi purpose bench-type machine, which is capable of turning, drilling, milling, boring and thread-cutting, and suitable for processing metal and other materials in small scale enterprises and repairing shops. It also can be used in schools, hospitals, research institutes and families for manufacturing teaching aids, experimental devices and handicraft, etc.

According to the design requirements, the processing diameters of steel and cast-iron workpieces are not more than 40mm for turning, 63mm for milling, and 16mm for drilling.

A special order should be given for processing inch thread workpieces.

2. Main Structure and Feature

This machine consists of bed, headstock, drilling-milling box, bench, apron, feed box, tailstock and motors. It integrate the main functions of turning, drilling and milling. Its bench can feed mechanically in both longitudinal and transverse directions. It's characterised by compact structure, easy operation and multi-purpose in one.

3. Main Technical Data

TURNING

Max swing dia. of workpiece in gap-bed	360mm
Max diameter of turning (middle carbon steels)	40mm
Max. distance between centers	300mm
Max. longitudinal stroke	210mm
Max. transverse stroke	180mm
Morse taper of spindle hole	No. 3
Bore diameter of spindle	20mm
Morse taper of tailstock hole	No. 2
Spindle speeds	200, 310, 400, 420, 560, 600, 1150, 1250, 1800r/min
Motor	550w
Range of feeds Metric thread	1 ~ 3 mm
Inch thread	7 ~ 24T / Inch
Longitudinal feed (Metric)	0.066 ~ 0.226 mm/r
Transverse feed (Metric)	0.037 ~ 0.127 mm/r
Longitudinal feed (Inch)	0.08 ~ 0.264 mm/r
Transverse feed (Inch)	0.045 ~ 0.15 mm/r

DRILLING AND MILLING

Turn-round of drilling-milling box	± 90°
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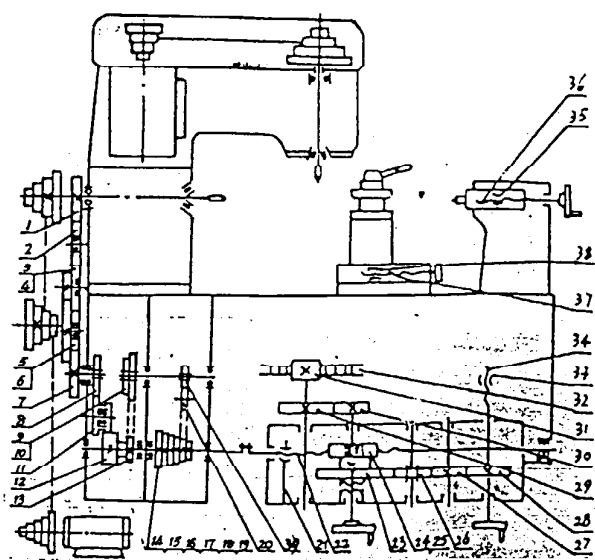
Max.drilling diameter		16mm
Morse taper of milling spindle hole	No.2	
Max. diameter of end mill		12mm
Max. diameter of facer		63mm
Area of bench (L×w)	200mm×185mm	
spindle speeds	430,800,1050,1500,2000r/min	220v/380v
	430, 800, 1050, 1500r/min	(110v)
Motor		250w--370w
Overall dimention(L×w×h)	920mm×720mm×810mm	
Net weight		180kg

4. Transmission System of Machine

From Diag. 1 can you see as following:

The driving force for turning is transferred from the motor behind the bed to the turning spindle via a two-stage V-belt unit. Nine-stage speeds can be obtained by adjusting the belts according to the speed plate. The driving force for drilling and milling, from the motor in the drilling-milling box to the drilling-milling spindle via a one-stage belt unit. The power of the feeding system, from the turning spindle to the feed box via a gear change, and from the primary group unit and the expanding group unit to the apron, so the longitudinal and transverse turning feeds or thread-cutting is realized.

The driving parts in the transmission system is shown in Table 1 and 2.



Diag.1 Transmission System Diagram

Table 1 List of Gears

No.	No of Machine Copg	Tooth Number	Material	No	No of Machine Copg	Tooth Number	Material
1	227	60		16	769	20	45
2	220	60	HT150	17	769	18	45
3	213	60		18	769	16	45
4	216	48	HT150	19	769	14	45
5	721	33	HT150	20	776	17	45
6	720	56		23	607	65	HT150
7	731	49		24	606	60	HT150
8	710	27	45	26	655	18	45
9	708	27	45	27	655	18	45
10	706	36	45	28	430	18	45
11	787	18	45	29	647	65	HT150
12	753	27	45	30	648	17	45
13	755	18	45	31	648	17	45
14	769	24	45	39	781	22	45
15	769	22	45				

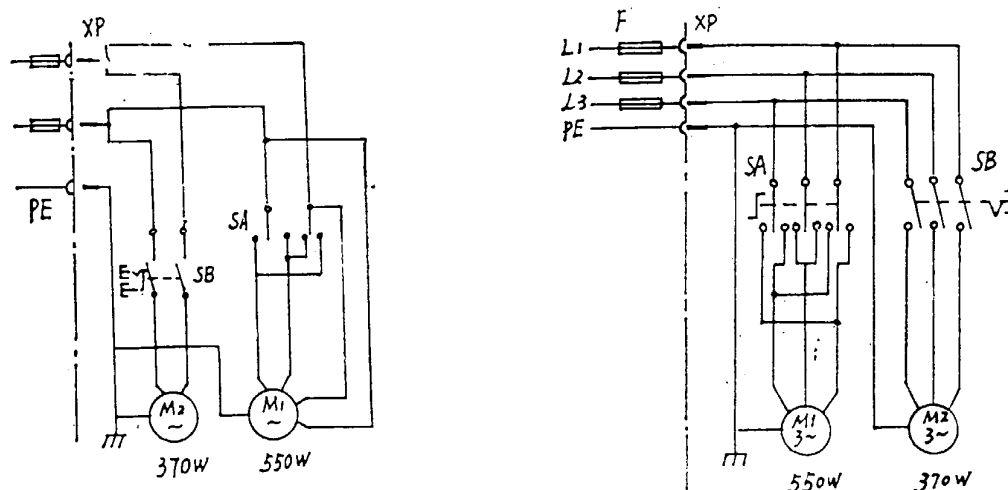
Note: Mode of the gears above is one piont five, the shift coef. of them is zero. Material which is not given is phenotic laminated fabric plate.

Table2 List of the Other Driving Parts

No.	Name	Hand of Spiral	Material	Heat Treatment	No.	Name	Hand of Spiral	Material	Heat Treatment
21	Screw nut	Left	ZQSn 6-6-3		34	Screw	Left	45	T235
22	Screw		45	T235	35	Screw nut		HT150	
					36	Screw		45	
25	Worm	Right		T235	37	Screw		45	
32	Rack		45		38	Screw nut		HT150	
33	Screw nut		HT150						

5. Electric System of Machine

This machine is driven by two sets of motor (220v/380v, 50Hz, or 110v, 60Hz, 1400r/min) each power of which is 370w and 550w. The motion of the turning motor is controlled by a combination switch SA located on the headstock and the motion of the drilling-milling motor, by a button switch SB located on the drilling-milling box. This electric system is safe and easy to operate.



Diag.2 Electric principle Diagram

6. Lubrication System of Machine

All moving friction surfaces of the machine tool parts should be lubricated periodically and thoroughly in order to assure its working reliability and reduce loss of power and wear of parts.

Therefore, the following points must be paid attention to:

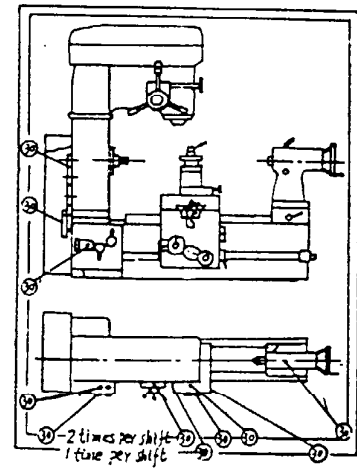
- (1) All of the oil sites should be oiled manually according to Diag.3.
- (2) Rails, surfaces of the spindle bore, lead screws and driving parts in feed box and apron should be lubricated according to their working conditions.
- (3) This machine should be lubricated with engine oil 30°, whose oilbody is 3.81°~4.59°E50.
- (4) All of the rolling bearings should be washed clean once per year and oiled.

7. Installation, Operation and adjustment

This machine has been inspected and tested before delivery. It must be installed properly, otherwise its accuracy and durability will be affected. Please pay more attention to this. Place the machine on a flat and strong platform, fix four clamping screws on the platform according to the positions of the clamping holes on bed. Conforming to the Go item in the certificate, test the machine with a level to make sure that it is level. Place metal planes with appropriate thickness near the clamping screws under the bed. Precisely adjust this machine, keep it in horizontal stage and tighten the screws diagonally, until it conforms to the requirement. The foot screws should be locked evenly in order to keep the machine level.

After being switched on, the machine should be run without load. It can be operated until after this kind of check with good result

Before running you should familiarise yourself with the position and the working method of every operating parts according to Diag. 4 and table 3 and oil it according to Diag. 3. Check the electric compounds to see whether they are complete or not, as well as whether the motors are damped, then connect electricity to test run, pay attention to the running condition of every mechanism and whether the rotating direction of the motors are right or not.



Diag. 3

Diagram of Maching Lubricating

Adjustment of the turning spindle and drilling-milling spindle:

Loose the lock-screw on the round nut which is at the end of spindle, adjust the round nut to assure the spindle turning freely, then relock the lock screw.

The overload clutch achieves its action by pressing a steel ball with a Preload screw through a spring. Adjusting the preloaded screw can change the drive torque, but it can not be turn to end.

8. Control and Operation

Pay attention to the following when operating:

(1) When the jaws of the tool post are used to clamp workpiece, remove the square turret assembly (including item # T06, T10, etc.), turn the tool post handwheel (item # T39) and use the handle lever (item # T38, included in the accessories assembly) to hold the workpiece firmly.

(2) Before starting up, check whether the position of every handle is correct or not.

(3) When unloading workpieces, or going away from the machine tool, you must turn the motors off.

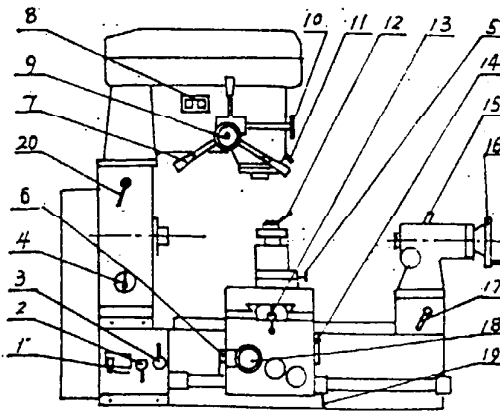
(4) The handles on the feed box can be turned only when the motor stops.

(5) The handles on the apron can be turned only when the motor stops or is at a lower speed.

The control methods are shown as following (shown in Diag.4) :

(1) Control of the drilling or milling feed. Micro-stroke feed can be realized when clutch handle 9 is pushed in and fine -adjusting hand wheel 10 is turned. When handle 9 is pulled out, handle 7 is then turned, a large-stroke feed can be controlled by hand.

(2) Control of metric feed. Lifting up or putting down handle 6 can realize longitudinal mechanic or manual feed. Lifting up or putting down handle 14 can



Diag. 4

Diagram of Machine Controlling

realize transverse feed mechanic or manual. (3) Control of cutting thread. Selecting the position of handle 1,2 as needed, putting down handle 6 and 14, and lifting up handle 19, can realize thread-cutting. The interlock mechanism can ensure that mechanic feed and thread-feed can't occur at the same time.

(4) When cutting thread, following should be paid attention to:

a: The turning spindle should turn at the lower speed 200r/min. b: When the cut space of a workpiece is wide, you may take the reverse method, that is, keep handle 19 at the engaged condition, not turn the switch 4 to the opposite position until the motor stops.

Table 3 Table of Control Parts

No.	Name	No	Name
1	Primary group speed-handle	11	Spindle quill lock handle
2	Expanding group speed-handle	12	Tool post lock handle
3	Handle for forward or reverse	13	Transverse handwheel
4	Turning motor switch	14	Transverse clutch handle
5	Tool post handwheel	15	Tailstock quill lock handle
6	Longitudinal feed handle	16	Tailstock handwheel
7	Handle	17	Tailstock lock handle
8	Drilling-milling motor switch	18	Longitudinal feed handwheel
9	Drilling-milling clutch handle	19	Nut clutch handle
10	Fine-feed handwheel	20	Drilling-milling box lock handle

9. Maintenance of Machine

(1) It's not allowed to exceed max. processing range mentioned above as the specification is chosen.

(2) This machine should be oiled according to lubrication requirements.

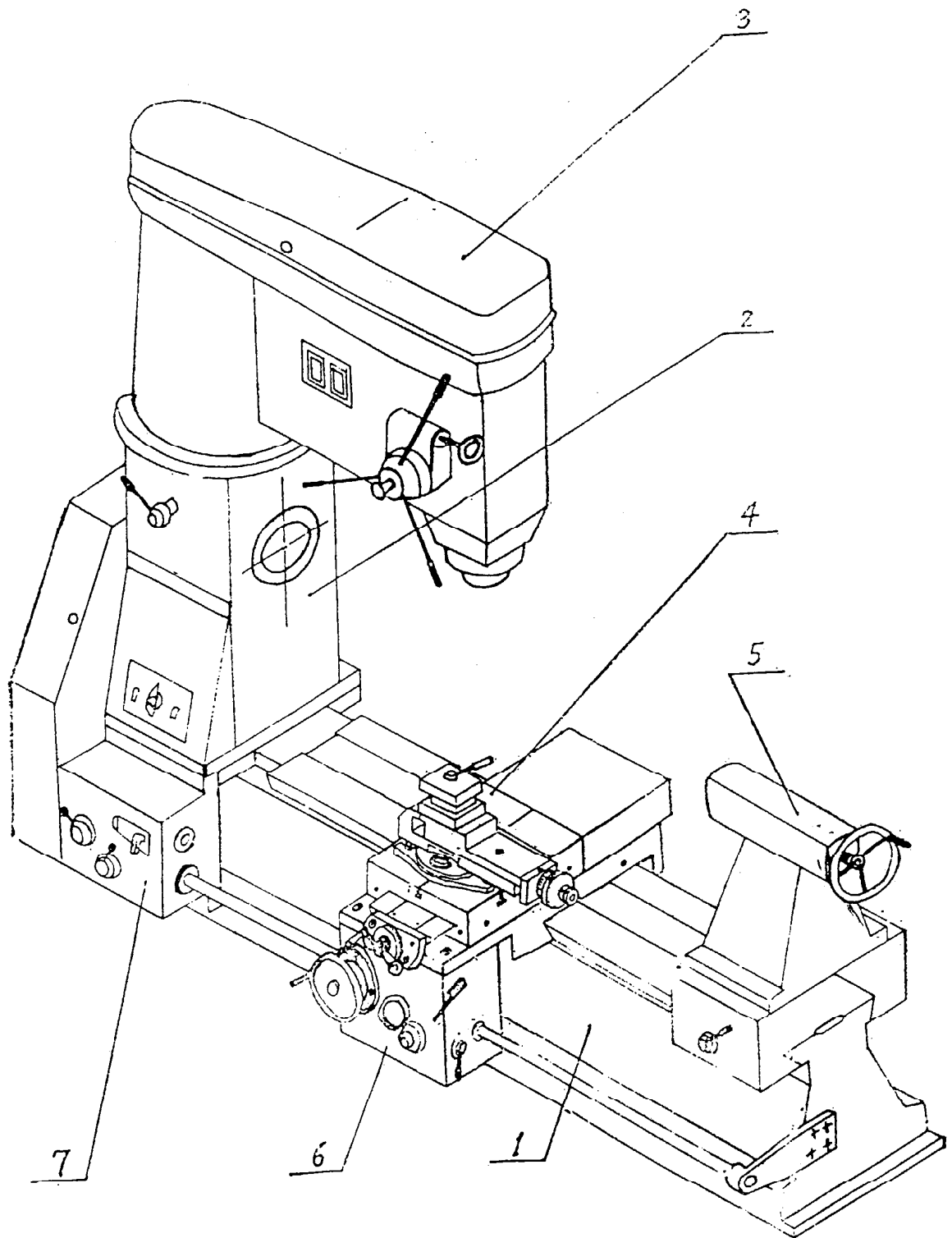
(3) If the machine at run has any trouble or abnormal noise, it should be stopped checked and repaired.

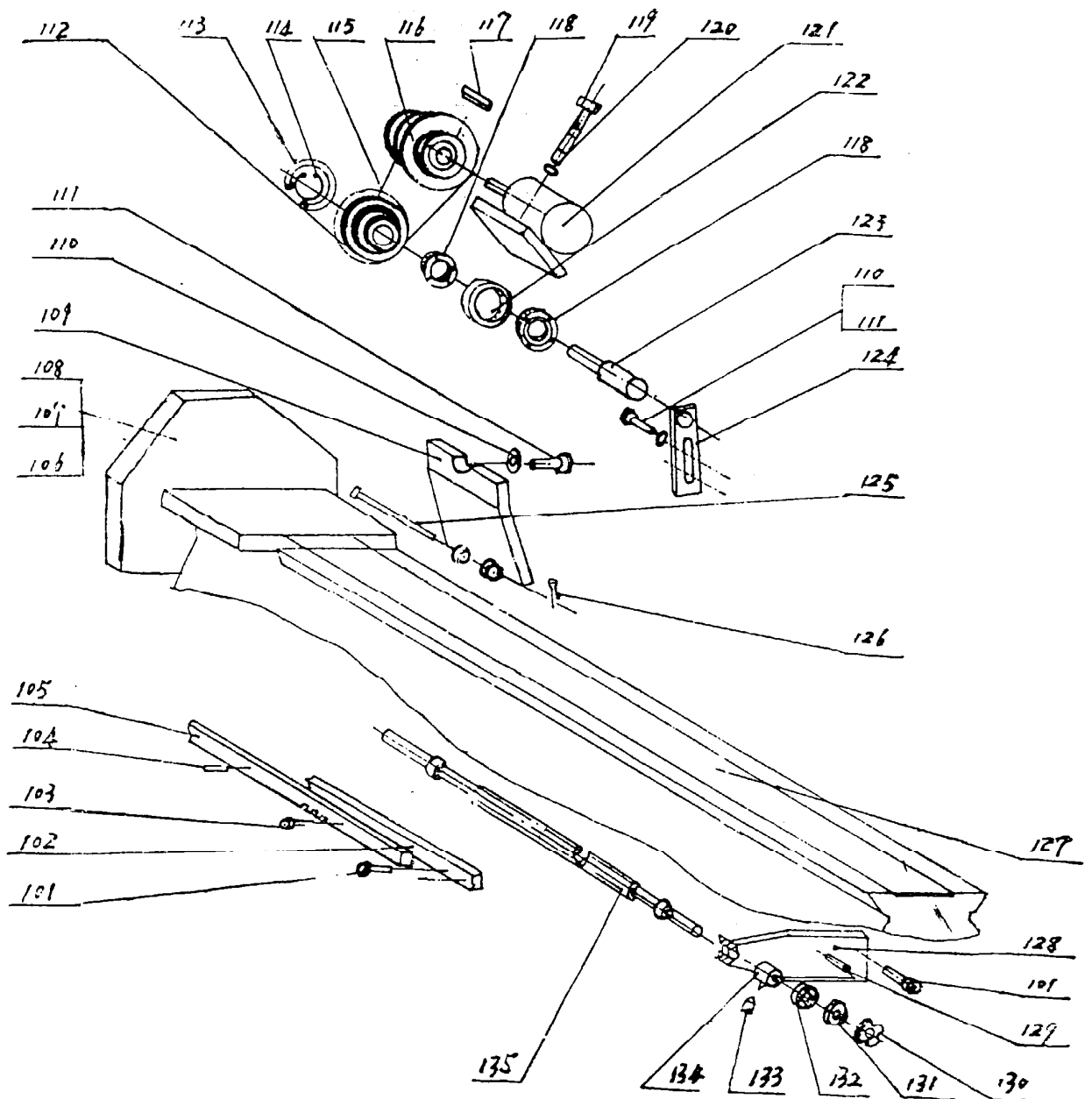
(4) Checking periodically and adjusting the tension of v-belts.

(5) Before each work shift, checking carefully whether every control part is in correct position or not.

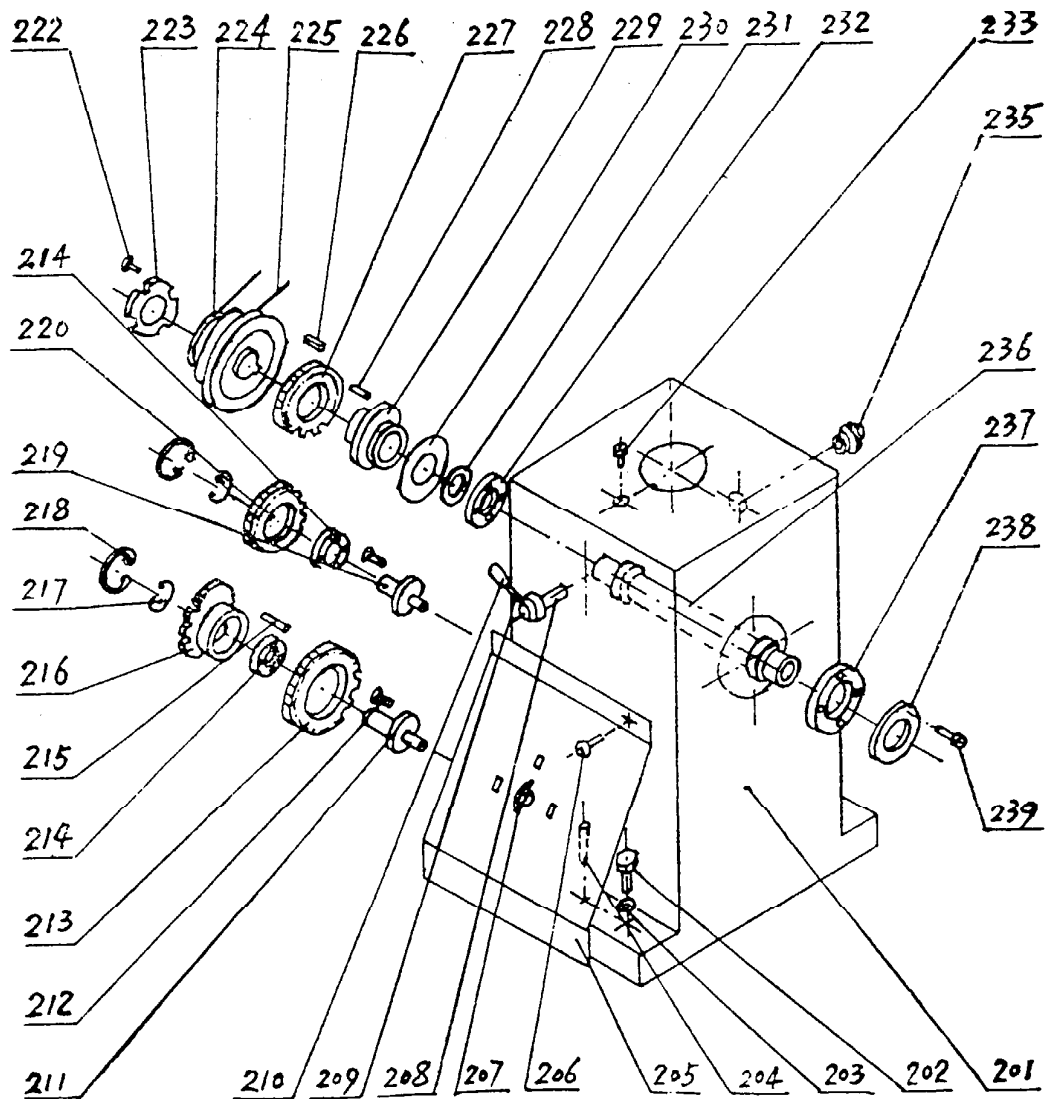
(6) All outer-shown friction surfaces should be checked whether they are efficiently lubricated.

10. Machine Copy

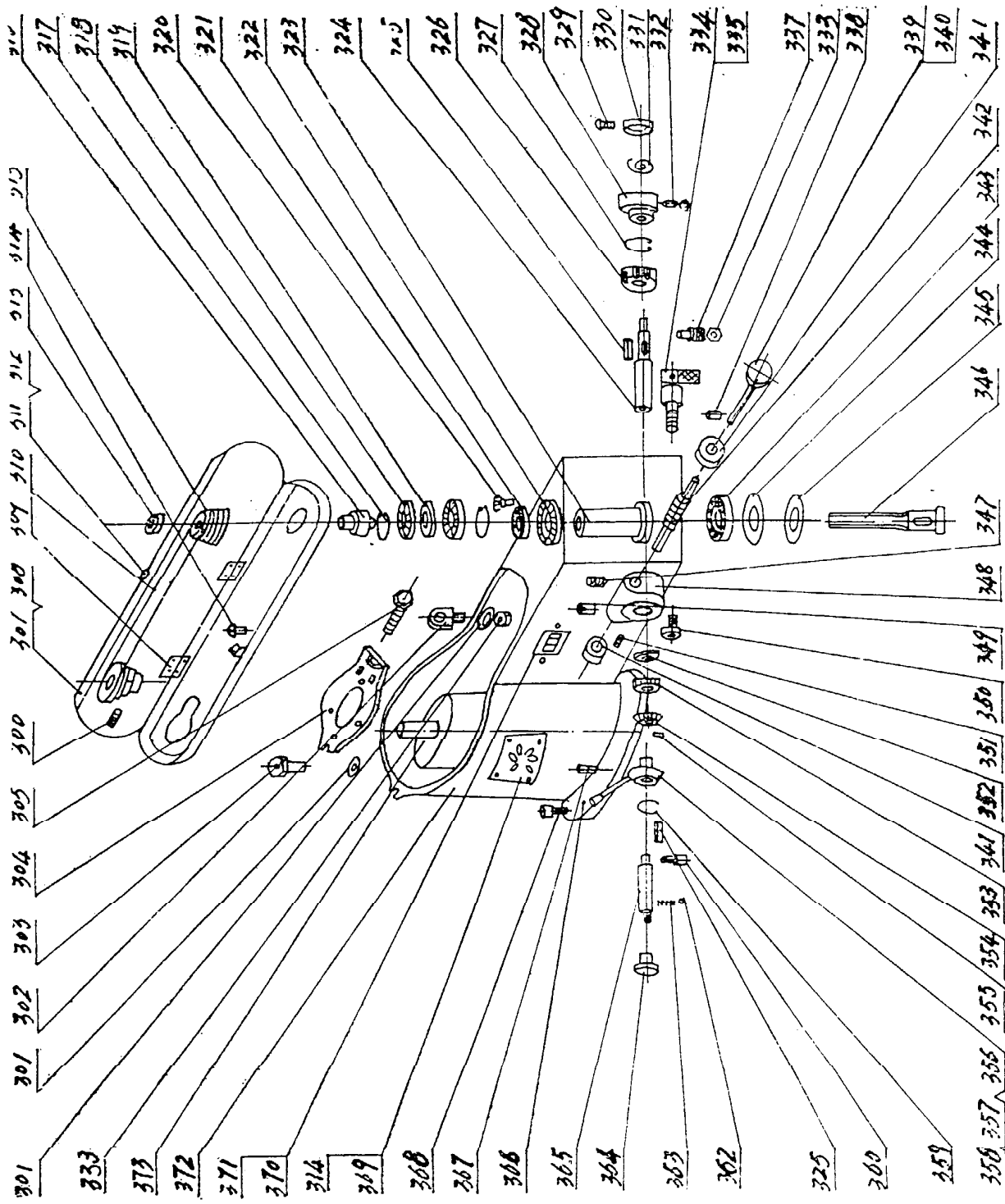




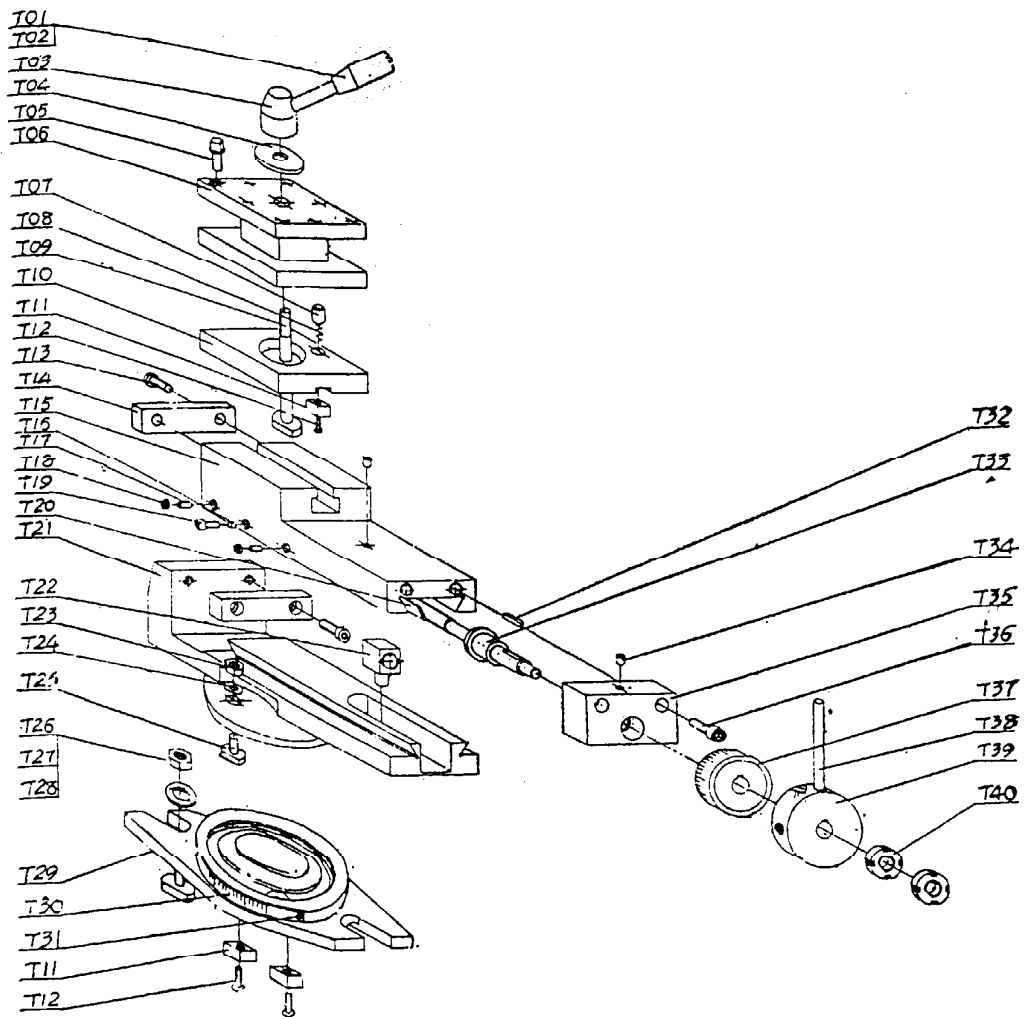
Part 1 Bed



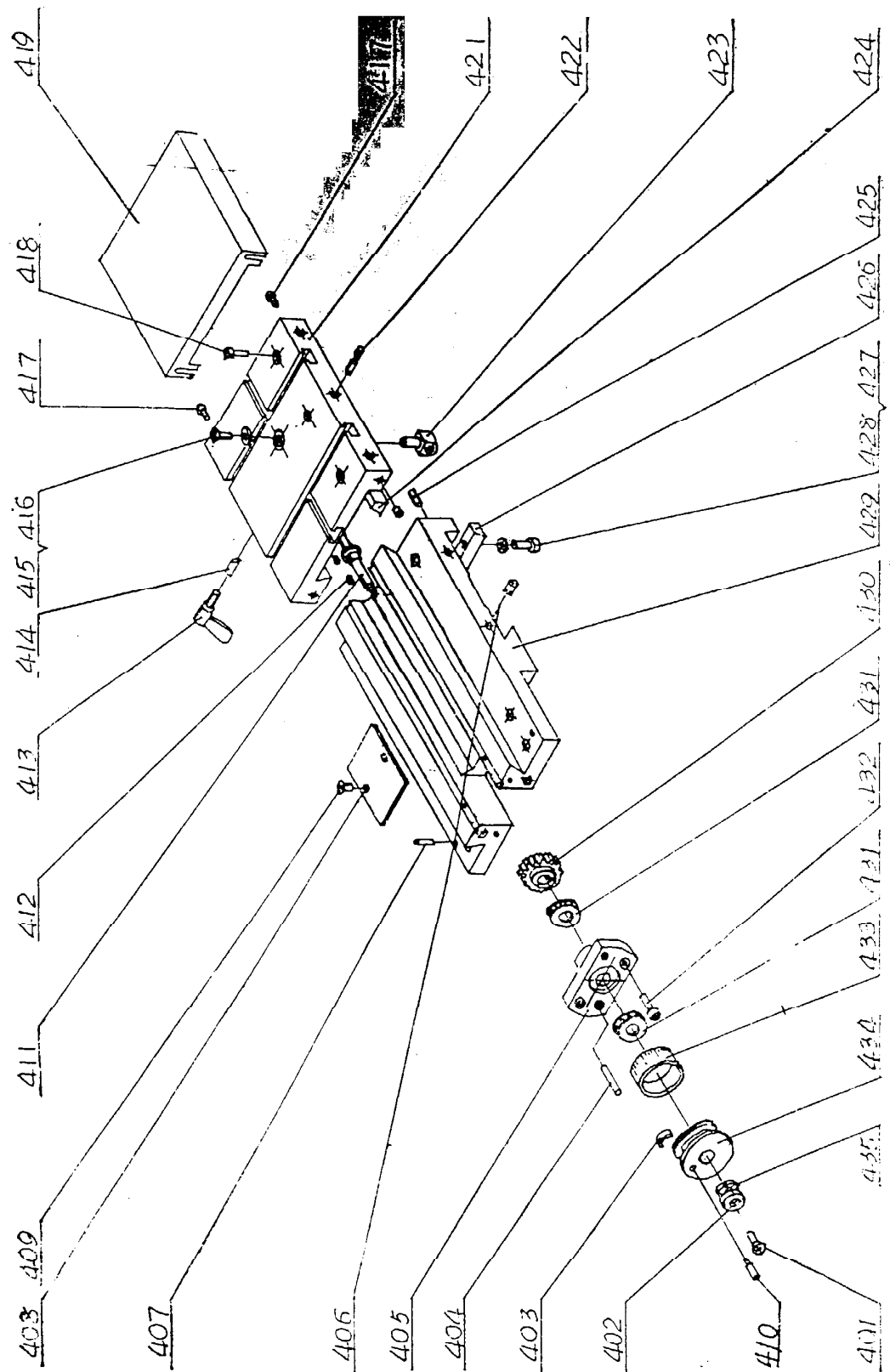
Part 2 Headstock



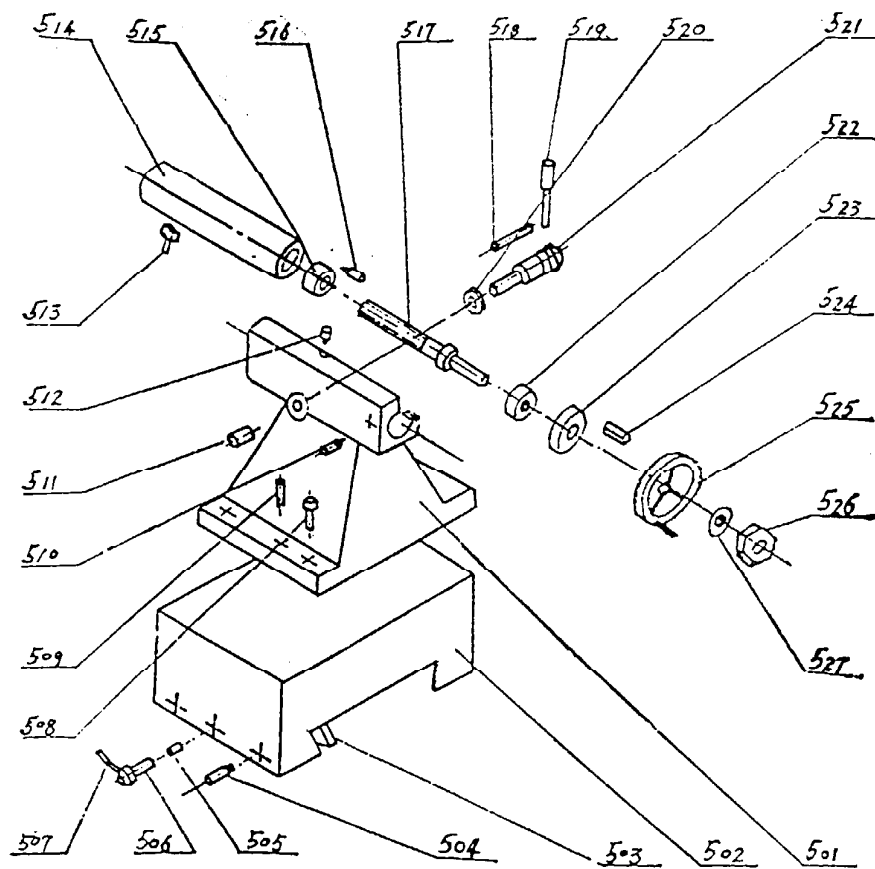
Part 3. Drilling-milling Box



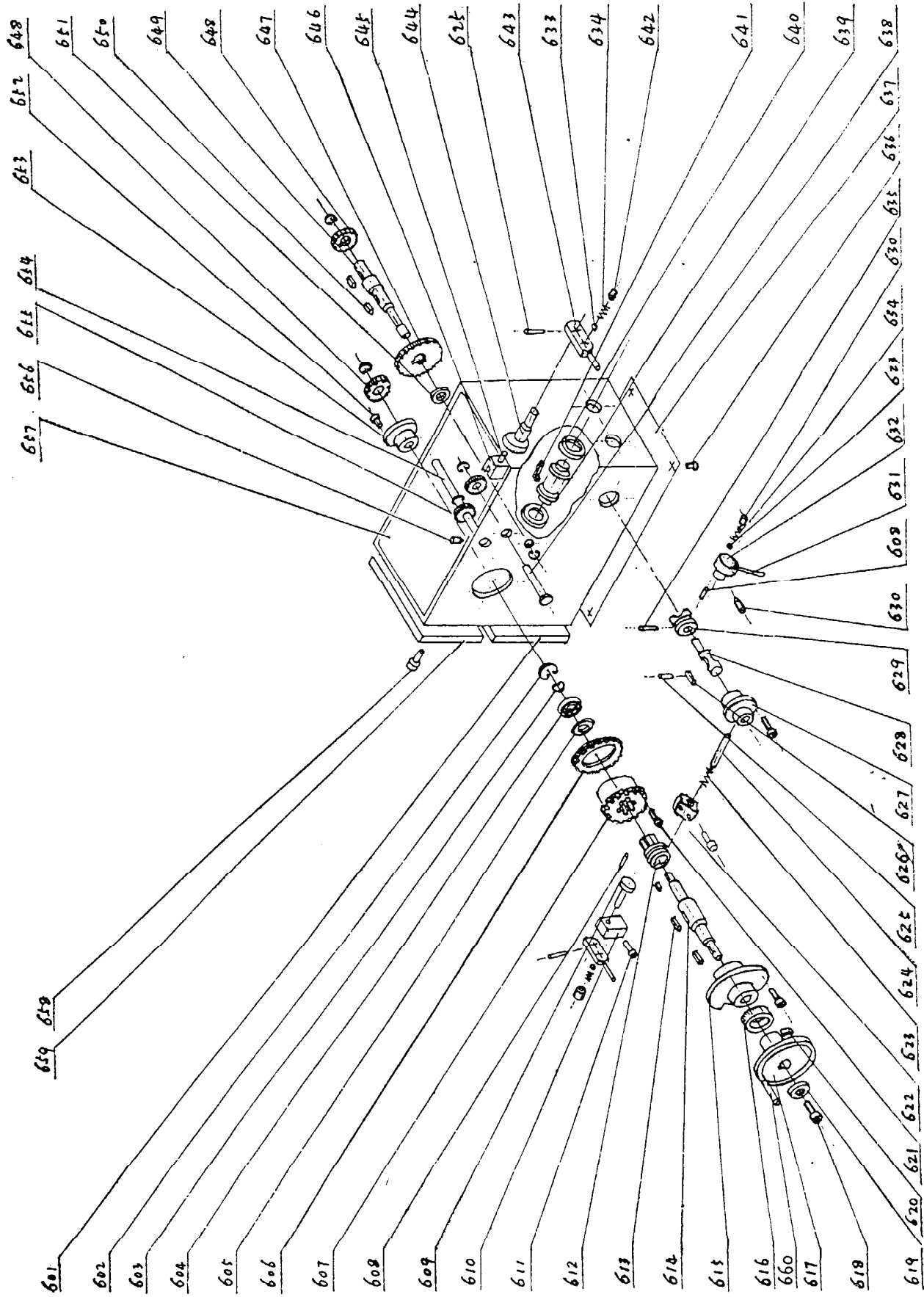
Part 4 Tool Post



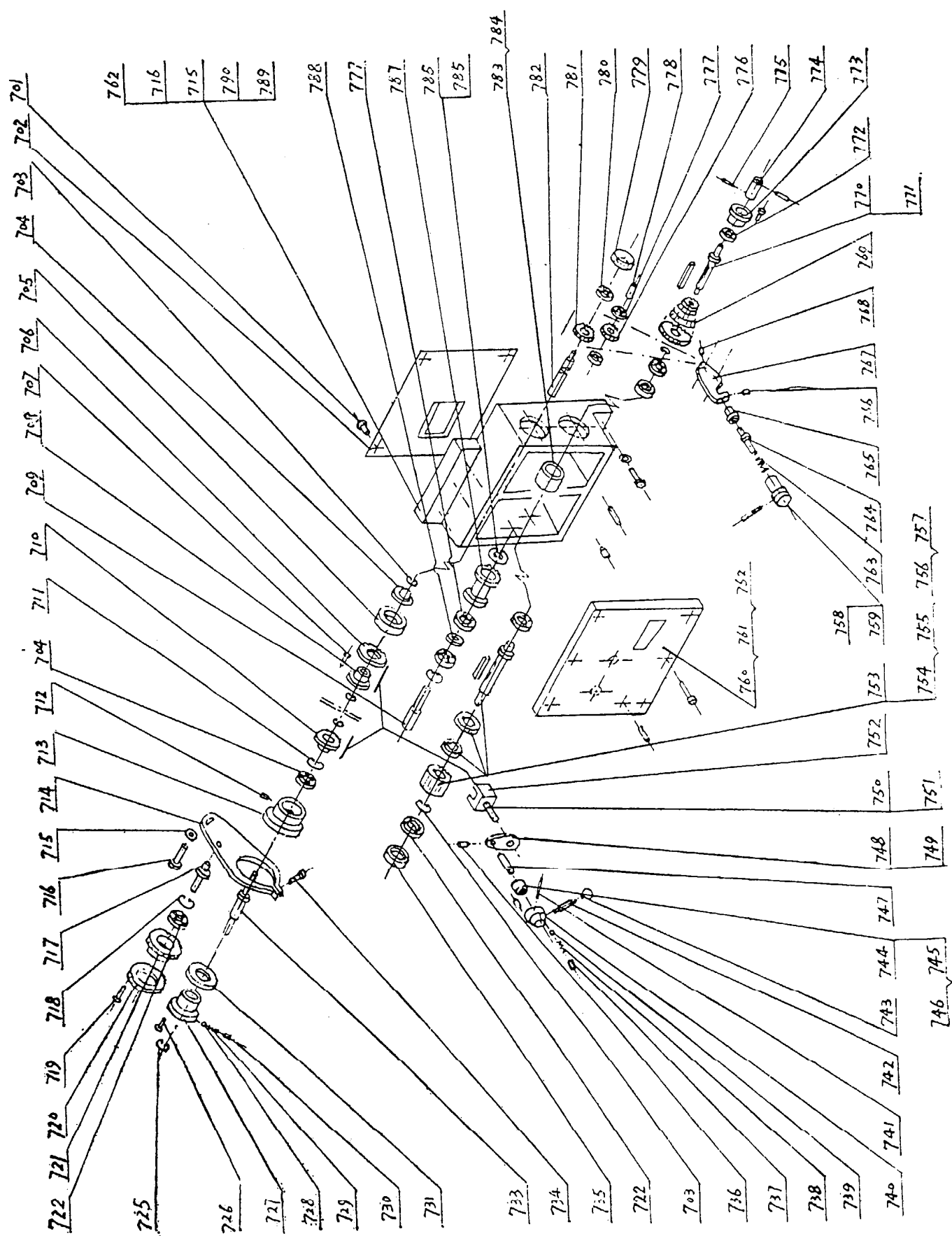
Part 5 Table



Part 6 Tail Stock



Part 7 Apron



Parts List

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
Part I Bed			121	motor 550w 1400r/min	1
101	socket cap screw M6×16	7	122	spacer ring	1
102	gib	1	123	support shaft	1
103	socket cap screw M6×30	2	124	support plate	1
104	taper bolt 4×40	2	125	pin bolt	1
105	rack	1	126	splint pin 2.5×16	1
106	internal cover	1	127	bed	1
107	cover	1	128	lead screw support	1
108	motor frame	1	129	taper bolt 4×20	2
110	flat washer 10	2	130	round nut M12×1.25	2
111	hexagon bolt M10×40	2	131	flat washer 12	1
112	middle Pulley wheel	1	132	bearing 8102	2
113	circlip 32	1	133	conical pointed tightening screw M6×10	1
114	circlip for shaft 15	1	134	spacer ring	1
115	V-belt A-560	1	135	lead screw	1
116	motor pulley	1	136	slotted cylindrical head screw M5×12	6
117	flat key	1	Part II Headstock		
118	bearing 102	2	201	headstock housing	1
119	hexagon bolt M8×20	4	202	hexagon bolt M12×45	4
120	spring washer 8	4			

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
203	spring washer 12	4	225	V-belt A-710	1
204	internal screw taper pin 8×40	2	226	flat key 10×45	1
			227	gear I	1
205	switch cover	1	228	clinch 4×22	3
206	slotted panhead screw M5×12	4	229	gear connection sleeve	1
207	combined switch HZ10-10P/4	1	230	dust ring	1
208	lock bolt	1	231	washer	1
209	handle lever BM8×65	1	232	bearing E207	1
210	handle cannula BM8×40	1	233	socket cap screw M5×10	1
211	adjustable gear shaft	1	234		
212	countersink screw M4×14	5	235	reducer D97-4-16	1
213	gear I	1	236	spindle	1
214	bearing 100	2	237	bearing E7208	1
215	clinch 3×22	6	238	end cover	1
216	double-conjunction gear	1	239	socket cap screw M6×16	3
217	circlip 26	4	Part II Drilling-Milling Box		
218	circlip for shaft 10	2	301	flat washer 10	4
219	adjustable gear shaft	1	302	adjuster	1
220	gear	1	303	hexagon bolt M5×25	3
222	countersink screw M5×8	1	304	adjusting plate for supporting motor	1
223	slotted round nut M33×1.5	1			
224	spindle pulley	1	305	hexagon bolt M10×35	3

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
306	long cylindrical head tightening screw M6×16	1	328	spring base	1
307	lower cover	1	329	panhead screw M5×8	1
308	upper cover	1	330	spring-box cover	1
310	V-belt 0 710	1	331	pan-shaped spring	1
311	handle	1	332	conical pointed tightening screw M10×30	1
312	cross recess panhead screw M6×15	1	333	hexagon nut M10	3
313	round nut M30×1.5	1	334	clamping rod	1
314	slotted panhead screw M5×8	10	335	clamp lever	1
315	big pulley	1	337	conical pointed dog screw M10×40	1
316	spline housing	1	338	taper bolt 3×20	2
317	circlip 62	2	339	fitting lever	1
318	bearing 206	2	340	hand wheel 8×63	1
319	bearing spacer ring	1	341	shaft sleeve	2
320	countersink screw M5×8	1	342	worm	1
321	slotted round nut M24×1.5	1	343	single-row tapered roller bearing E7207	1
322	bearing 205	1	344	dust ring	1
323	spindle sliding bush	1	345	rubber washer	1
324	spindle	1	346	shaft for drilling & milling	1
325	flat key 8×25	2	347	conical pointed tightening screw M6×10	1
326	cylindrical gear	1			
327	circlip for shaft 25	1	348	worm-gear case	1

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
349	oil cup 6	1	371	cross recess panhead screw M4×10	2
350	socket cap screw M6×16	3	372	drilling & milling box	1
351	slotted flat-end tightening screw M4×6	1	373	motor 370W 1400r/min	1
352	washer	1	309	cross linking 40	2
353	worm	1	Part IV Table		
354	scale ring	1	401	screw M5×12	1
355	plate spring	1	402	washer	1
356	handle body	1	403	plate spring	1
357	handle lever	3	404	taper bolt 4×24	2
358	long handle cannula BM10×50	3	405	suppert	1
359	circlip for shaft 32	1	406	oil cup 6	4
360	banking pin	1	407	taper bolt 3×20	2
362	steel ball 6	1	408	lower board	1
363	spring	1	409	screw M4×8	2
364	round handle BM10×40	1	410	handle M6×32	1
365	banking shaft	1	411	lead scrw	1
366	connecting swivel plate	1	412	flat key 4×10	2
367	taper bolt 6×40	1	413	lock bolt	1 set
368	socket cap screw M6×20	6	414	sloping block	1
369	cover sheet	1	415	screw M5×12	1
370	push button KAO-5	1	416	washer	1

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
417	screw M5×8	2	T04	washer	1
418	socket cap screw M8×25	3	T05	square pressing screw M8×22	8
419	cover	1	T06	tool apron	1
421	table	1	T07	positioning cap	1
422	screw M8×20	3	T08	spring	1
423	nut	1	T09	locking shaft	1
424	gib	1	T10	tool apron backer	1
425	screw M10×15	3	T11	positioning block	3
426	gib	1	T12	cross recess head countersink screw M4×10	3
427	hexagon bolt M10×40	2			
428	washer 10	2	T13	socket cap screw M5×10	4
429	lower slide plate	1	T14	clamping block	2
430	gear Z18	1	T15	movable clamp	1
431	bearing 8102	2	T16	sloping block	1
432	socket cap screw M6×16	2	T17	conical pointed tightening screw M5×15	2
433	scale ring	1			
434	hand wheel	1	T18	nut M5	2
435	round nut M12×1.25	1	T19	socket cap screw M5×16	1
Part IV Tool Post			T20	spacer block	1
T01	handle lever BM8×75	1	T21	fixed clamp	1
T02	handle sleeve BM8×40	1	T22	nut	1
T03	handle locking holder	1	T23	nut M8	2

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
T24	flat washer 8	2	505	sloping block .	1
T25	T-shaped screw bolt M8×26	2	506	clamp shaft	1
T26	nut M10	2	507	handle	1
T27	flat washer 10	2	508	socket cap screw M6×16	4
T28	T-shaped screw bolt M10×26	2	509	taper bolt 4×25	2
T29	basement	1	510	conical pointed tightening screw M6×10	1
T30	graduated staff guage	1			
T31	hollow rivet	2	511	clamp block	1
T32	flat key 4×20	1	512	oil cup 6	2
T33	lead screw	1	513	T-shaped emboly flat key	1
T34	oil cup 6	2	514	tail stock core shaft	1
T35	lead screw base	1	515	nut	1
T36	socket cap screw M6×16	2	516	flat end tightening screw M4×8	3
T37	scale ring	1	517	tail stock lead screw	1
T38	handle lever	1	518	cylinder pin 5×20	1
T39	hand wheel	1	519	handle lever BM8×65	1 set
T40	round nut	2	520	washer	1
Part V Tail Stock			521	check lock shaft	1
501	tail stock	1	522	supporting sleeve	1
502	tail stock seating	1	523	graduated disk	1
503	spacer block	1	524	flat key 4×20	1
504	conical pointed tightening screw M6×30	2	525	tail stock hand wheel B12×100	1

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
523	capped nut M10 501 4/134	1	620	plate spring	1
527	flat washer 10 10 10	1	621	socket cap screw M6×30	3
Part V. 22 Apron			622	lock body	1
601	bearing cover	1	623	spring	1
602	circlip 35	1	624	lock shaft	1
603	circlip for shaft 17	1	625	taper pin 3×15	1
604	bearing 103	2	626	plate key 6×12	1
605	washer	1	627	guide bush	1
606	helical gear Z60	1	628	guide shaft	1
607	gear with splin hole	1	629	half nut	1
608	pin 4×18	2	630	screw M6×10	2
609	longitudinal occentric shaft	1	631	handle	1
610	holder	1	632	handle holder	1
611	socket cap screw M5×30	4	633	steel ball 5	1
612	connection	1	634	spring	1
613	plate key 4×20	2	635	taper pin 3×30	1
614	shaft	1	636	screw M5×8	4
615	flange	1	637	bottom board	1
616	scale ring	1	638	shaft	1
617	handwheel	1	639	worm	1
618	socket cap screw M6×20	1	640	bearing 46105	2
619	washer	1	641	clasp key	1

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
642	empty-centre screw	2	703	circlip for shaft 12	5
643	lever	2	704	bearing . 101	3
644	transverse eccentric shaft	1	705	shaft sleeve II	1
645	shaft	1	706	gear Z36	1
646	fork block	1	707	screw M4×12	3
647	gear Z65	1	708	gear Z27	1
648	gear Z17	2	709	shaft IV	1
649	shaft	1	710	gear	1
650	plate key 4×10	4	711	circlip 28	1
651	washer	1	712	conical pointed tightening	8
652	screw M5×12	3		screw M6×10	
653	shaft sleeve	1	713	bearing cover	1
654	mid gear shaft	1	714	adjustable gear support	1
655	gear Z18	2	715	flat washer 8	5
656	screw M6×6	1	716	hexagon bolt M8×25	5
657	apron housing	1	717	adjustable gear shaft	1
658	screw M6×12	6	718	circlip 26	2
659	cover	1	719	clinch 3×12	9
660	handle	1	720	double-conjunction gear Z56	1
Part VI Feed Box			721	double conjunction gear Z33	1
701	screw M5×8	4	722	gear 100	4
702	board	1			

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
		1	746	flat-end tightening screw M4×8	2
725	circlip for shaft 12	1	747	handle shaft	2
726	clinch 4×22	3	748	fork I	1
727	cluth sleeve	1	749	fork II	1
728	steel ball 6	3	750	shaft	1
729	spring	3	751	shaft	1
730	flat-end tightening screw	3	752	fork block	2
731	laminated fabric gear Z49	1	753	gear II Z27	1
		1	754	spacer ring	1
733	shaft I	1	755	gear I Z18	1
734	socket cap screw M5×15	4	756	shaft M	1
735	sleeve	1	757	flat key 4×36	1
736	taper pin 3×20	2	758	taper pin 2×18	1
737	flat-end tightening screw M6×10	2	759	handle cannula	1
738	spring	2	760	cover	1
739	steel ball	2	761	socket cap screw M6×12	6
740	handle holder	1	762	taper pin 5×25	4
741	taper pin 3×40	2	763	spring	1
742	handle lever	2	764	stop bolt	1
743	handle ball	2	765	stop-bolt body	1
744	sleeve	1	766	conical pointed tightening screw M5×8	1
745	little sleeve	1			

ITEM	NAME & SPEC.	QUAN.	ITEM	NAME & SPEC.	QUAN.
767	speed-change handle	1	787	double-connection gear	1
768	conical pointed tightening screw M4×8	2	788	spacer ring	1
			789	feed housing	1
769	tower gear Z14.16.18.20.22.24	1	790	flat-end tightening screw	4
770	shaft V	1			
771	flute key 4×46	1			
772	bearing 102	1			
773	gear cover	1			
774	connection sleeve	1			
775	taper pin	2			
776	mid-gear	1			
777	bearing 1000096	4			
778	pin B6×24	1			
779	sleeve	1			
780	bearing 18	1			
781	sliding gear Z22	1			
782	shaft II	1			
783	bearing sleeve	1			
784	bearing spacer sleeve	1			
785	circlip 15	2			
786	circlip for shaft 6	1			

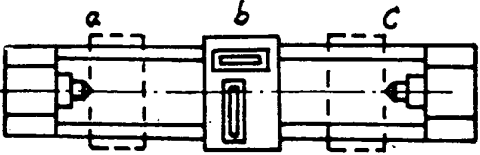
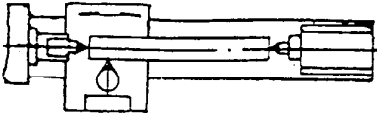
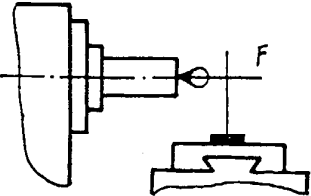
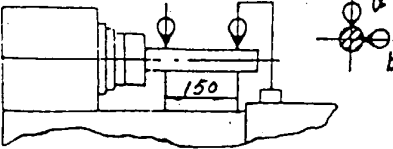
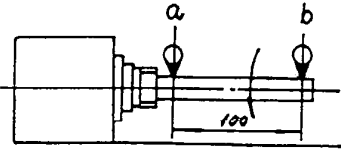
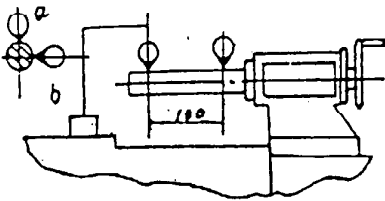
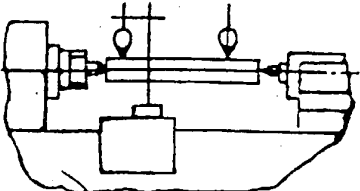
TEST CERTIFICATION

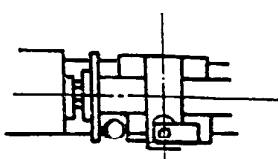
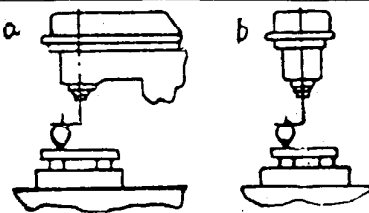
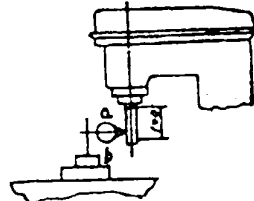
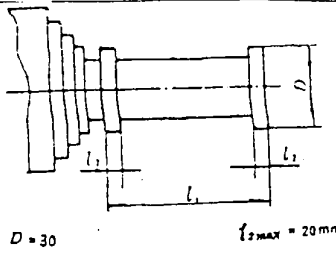
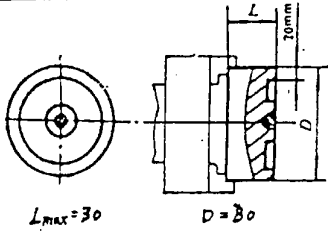
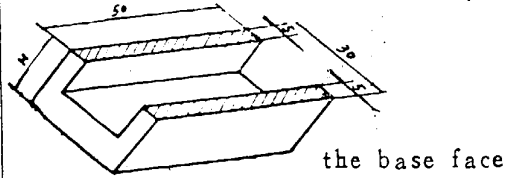
LINYI MACHINE TOOL WORKS
THE PEOPLE'S REPUBLIC OF CHINA

This machine conforms with Q/LJC01—94
«Light Duty Versatile Lathe Accuracy» Standard. It has been
tested and found qualified for delivery.

Chief of Inspection Dept: WANG WENTIAN

Plant Director: YU DANING

L—H009		Test Certification	Page 1 of 2
Inspection Accuracy Table (mm)			
No.	Item	Inspecting Sketch	Allowable Tolerance
G ₀	Leveling for the machine		0.08/1000
G ₁	Linearity of carriage moving in the level		0.08
G ₂	Axial float of the spindle		0.03
G ₃	Parallelism of the turning spindle axis to the carriage moving		a: 0.04 b: 0.05 Only onward deviation allowed
G ₄	Runout of the axis of spindle taper hole of the headstock		a: 0.03 Near the spindle end b: 0.04 100mm away from the end
G ₅	Parallelism of the axis of tailstock sleeve to the carriage moving		a: 0.04 b: 0.04
G ₆	Equal-height of the axis between the headstock and tailstock centres to the carriage		0.05

L—H009		Test Certification		Page 2 of 2
Inspection Accuary Table (mm)				
No.	Item	Inspeeting Sketch	Allowable Tolerance	
G ₇	Perpendicularity of lateral moving of the transverse tool post to the spindle axis		0.07/100	
G ₈	Perpendicularity of the rotation axis of the drilling-milling spindle to the table face		a:0.15/200 b:0.15/200	
G ₉	Runout of the axis of the drilling-milling spindle hole		a:0.03 Near the spindle end b:0.05 100mm away from the end	
P ₁	Cylindricity of excircle finishing	 D = 30 l _{2max} = 20mm	0.05 Measured on a length of 50mm	
P ₂	Flatness of face fine cutting	 L _{max} = 30 D = 30 20mm	0.08	
P ₃	Parrallelism of the milled surface to the base face	 the base face	0.08	

L—H009

Packing List

Page 1 of 1

Case No.

Gross weight 260kg

Net weight 180kg

Size of box (L×w×h)

115cm×74.5cm×96cm

No.	Name	Specification and Mark	Quantity	Remark
1	The Main machine tool	L-H009	1	
2	Three-jaw chuck	Ø100	1	
3	Flange		1	
4	Pressing cutter wrench		1	
5	Wedge		1	
6	Drill chuck	IS16	1	
7	Drawing bar		1	
8	Excircle turning tool		1	
9	Drill taper stock		1	
10	Fixed centre	No.2, No.3	1 for each	Morse taper
11	Facer	Ø63	1	
12	Borer		1	Special order
13	Milling chuck		1	Special order
14	Thread cutting		1	Special order
15	Pressure oiler	180cm ³	1	Special order
16	Technical document		1	

Packing Inspector

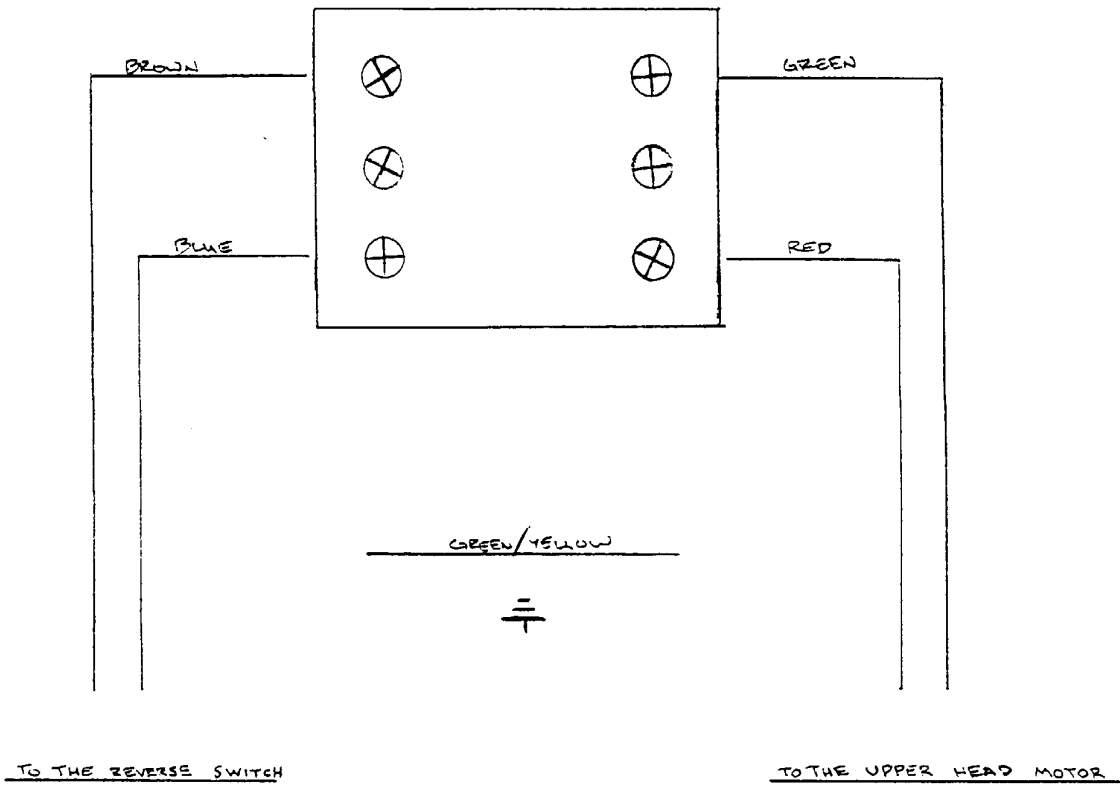
Inspector 12

Date

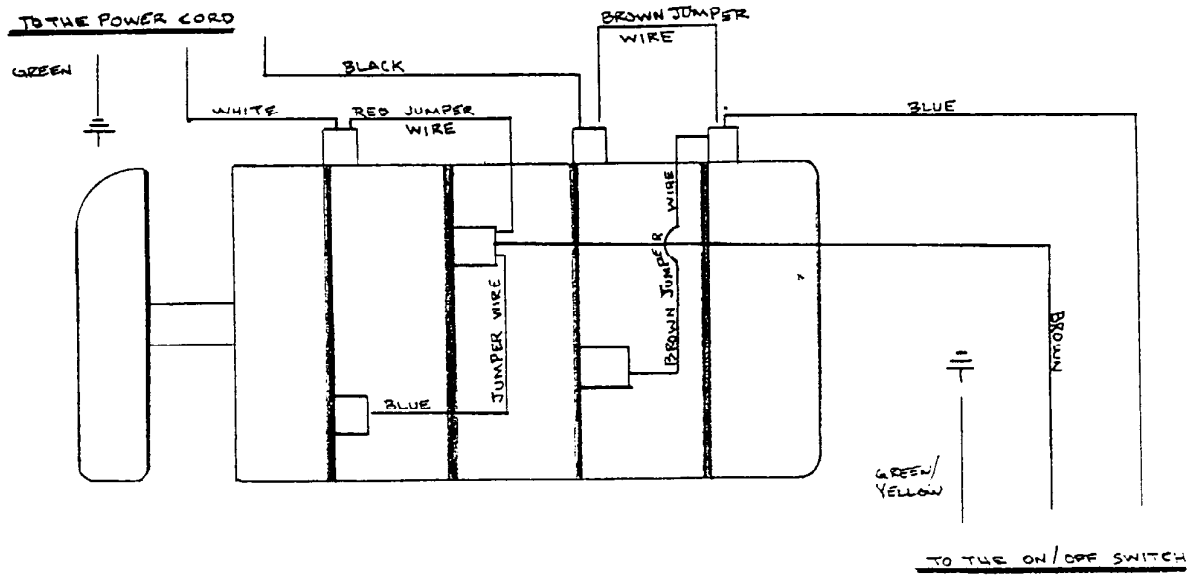
2

SKU# 5981 DESL. MULTI-PURPOSE MACHINE

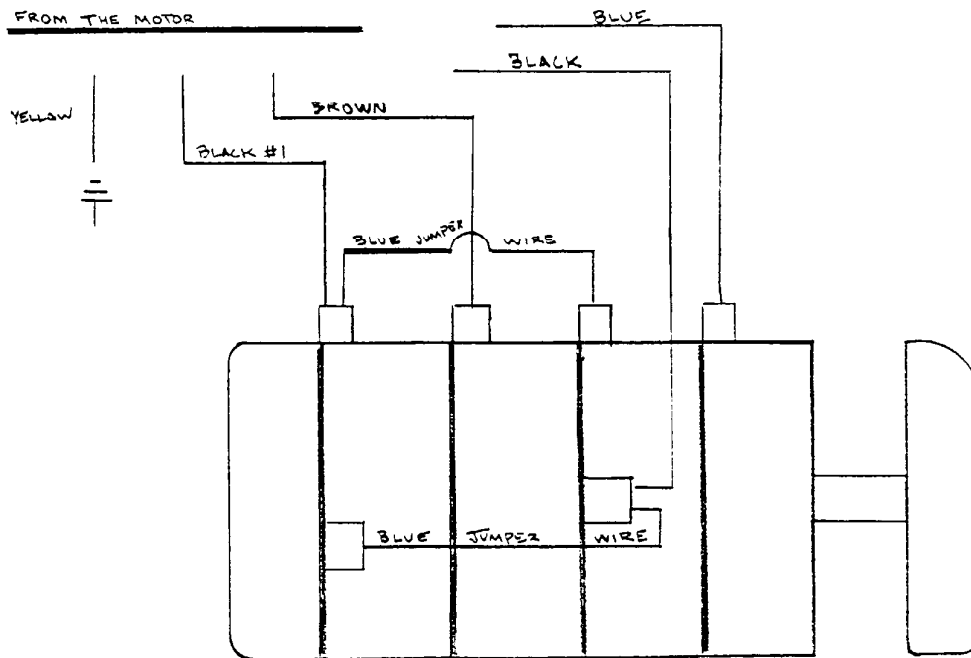
ON/OFF SWITCH



REVERSE SWITCH

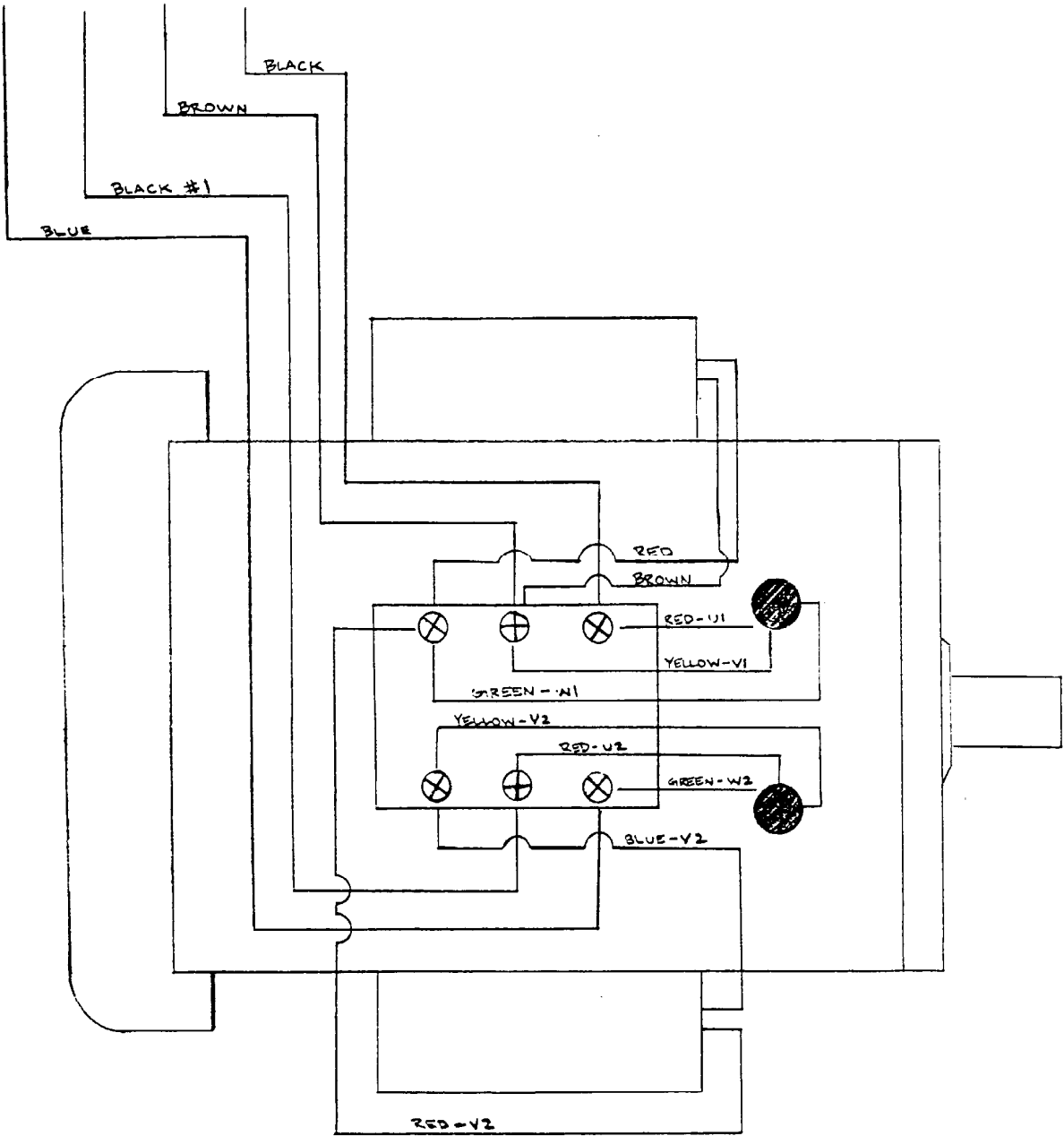


FROM THE MOTOR



MOTOR

TO THE REVERSE SWITCH



- A. LEAD SCREW DIRECTIONAL SELECTOR (FORWARD / REVERSE)
- B. HIGH/NEUTRAL/LOW LEAD SCREW SPEED
- C. FEED RATE SELECTOR
- D. CROSS FEED LOCK/RELEASE LEVER
- E. POWER FEED ENGAGE/DISENGAGE

WHEN LEAD SCREW IS TURNING, THIS ENGAGES THE POWER FEED

